

Listing of Claims:

1. (Currently Amended) ~~Telecommunication~~ A telecommunication network using the W-CDMA wideband-code division multiple access protocol; comprising:

a ~~variety~~ plurality of base stations (BS) communicating with ~~each other~~ via a central Radio Network Controller (RNC) by an asynchronous transfer mode ATM based data connection via an I_{UB} interface, ~~whereby~~ at least one of the plurality of base stations (BS) ~~comprises~~ comprising a ~~variety~~ plurality of radio sectors (1, 2, 3, ... n) ~~with having~~ physically distributed AAL-2 based termination points (TP), each termination point having ~~[[a]]~~ an AAL-2 over asynchronous transfer mode ATM structure where different call ID's are mapped into respective asynchronous transfer mode ATM virtual connections (ATM/VC) under the control of a control unit timer (CU-timer) having a determined delay time~~[[,]]~~; and

an asynchronous transfer mode switching unit that receives all AAL-2 ~~AAL-2~~ cell streams being sent parallel to each other; ~~to an ATM switching unit (AXU) via an UTOPIA interface, characterized in that~~

wherein said asynchronous transfer mode ATM switching unit comprises a multiplexing unit (AAM-CPS-MUX) for multiplexing AAL-2 connections of the different termination points (TP) into ~~one~~ a single asynchronous transfer mode ATM virtual connection to be processed by the asynchronous transfer mode ATM switch.

2. (Currently Amended) ~~Telecommunication~~ The telecommunication network according to ~~of claim 1, characterized in that~~ wherein both the AAL-2 ~~stream~~ streams coming from the individual radio sectors and ~~the~~ a multiplexed AAL-2 stream have independent control unit timers ~~CU-timers~~.

3. (Currently Amended) ~~Telecommunication~~ The telecommunication network according to ~~of claim 1, characterized in that~~ wherein each ~~of the channels~~ channel of the plurality of radio sectors has a different bandwidth ~~have different bandwidths~~.

4. (Currently Amended) ~~Telecommunication~~ The telecommunication network according to ~~of claim 1, characterized in that~~ wherein the multiplexing unit (AAM-CPS-MUX) has a switchable bypass line.

5. (Currently Amended) ~~Telecommunication~~ The telecommunication network according to of claim 4, ~~characterized in that~~ wherein the multiplexing unit (~~AAM CPS MUX~~) is of a plug-in type unit.

6. (Currently Amended) An asynchronous transfer mode ATM switch for a telecommunication network using ~~the W-CDMA~~ wideband-code division multiple access, comprising:

a ~~variety~~ plurality of base stations (~~BS~~) communicating with ~~each other~~ via a central Radio Network Controller (~~RNC~~) by an asynchronous transfer mode ATM based data connection via an I_{UB} interface, ~~whereby~~ at least one of the plurality of base stations (~~BS~~) ~~comprises~~ comprising a plurality ~~variety~~ of radio sectors (1, 2, 3, ... n) ~~with~~ having physically distributed AAL-2 based termination points, each termination point having [[a]] an AAL-2 over asynchronous transfer mode ATM structure where different call ID's are mapped into asynchronous transfer mode ATM virtual connections (~~ATM/VC~~) under the control of a control unit timer (~~CU-timer~~) having a determined delay time[[,]]; and

an asynchronous transfer mode switching unit receiving all AAL AAL-2 cell streams being sent parallel to each other; ~~to an ATM switching unit (AXU) via an UTOPIA interface, characterized in that the ATM~~

wherein said asynchronous transfer mode switching unit comprises a multiplexing unit (~~AAM CPS MUX~~) for multiplexing AAL-2 connections of the different termination points TP into ~~one~~ a single asynchronous transfer mode ATM virtual connection to be processed by the asynchronous transfer mode ATM switch.

7. (Currently Amended) ~~Method~~ A method for data processing in a telecommunication network using ~~the W-CDMA~~ wideband-code division multiple access protocol, the network consisting of a ~~variety~~ plurality of base stations communicating with a central radio network controller via an I_{UB} interface in which ~~the~~ a data connection between the plurality of base stations and the Radio Network Controller ~~RNC~~ controller uses ATM based broadband data traffic, ~~whereby~~ comprising:

generating from at least one of the plurality of base stations ~~generates AAL~~
AAL-2 over asynchronous transfer mode ATM data streams corresponding to the
termination points of different a plurality of radio sectors within one cell (~~base~~
~~station~~)[[.]];

mapping the different call ID's within ~~the same~~ an identical radio sector
~~being mapped~~ into AAL-2 over asynchronous transfer mode ATM streams with a
given delay time under control of a control unit timer[[, and whereby]];

sending all ATM cell streams of the ~~different~~ plurality of radio sectors of ~~one~~
a single base station ~~unit are sent~~ in parallel to an asynchronous transfer mode ATM
switching unit; and via an UTOPIA interface, characterized in that

multiplexing parallel incoming AAL-2 connections of ~~the~~ different
termination points of ~~one~~ the single base station ~~are multiplexed~~ into ~~one~~ a single
asynchronous transfer mode ATM cell virtual connection ~~before being to be~~
processed connections by the asynchronous transfer mode ATM switch.

8. (Currently Amended) ~~Telecommunication~~ The telecommunication network ~~according to~~
of claim 2, ~~characterized in that~~ wherein each ~~of the channels~~ channel of the plurality of radio
sectors has a different bandwidth ~~have different bandwidths~~.

9. (Currently Amended) ~~Telecommunication~~ The telecommunication network ~~according to~~
of claim 2, ~~characterized in that~~ wherein the multiplexing unit (~~AAM CPS MUX~~) has a switchable
bypass line.

10. (Currently Amended) ~~Telecommunication~~ The telecommunication network ~~according to~~
of claim 3, ~~characterized in that~~ wherein the multiplexing unit (~~AAM CPS MUX~~) has a switchable
bypass line.

11. (New) The asynchronous transfer mode switch of claim 6, wherein both the AAL-2
streams coming from individual radio sectors and a multiplexed AAL-2 stream have independent
control unit timers.

12. (New) The asynchronous transfer mode switch of claim 6, wherein the multiplexing
unit has a switchable bypass line.

13. (New) The asynchronous transfer mode switch of claim 12, wherein the multiplexing unit is a plug-in type unit.

14. (New) The method of claim 7, wherein both the AAL-2 streams coming from the individual radio sectors and the multiplexed AAL-2 stream have independent control unit timers.

15. (New) The method of claim 7, wherein the cell is a base station.

16. (New) The method of claim 7, wherein the multiplexing is performed in a multiplexing unit.

17. (New) The method of claim 15, wherein the multiplexing unit has a switchable bypass line.

18. (New) The method of claim 16, wherein the multiplexing unit is a plug-in type unit.